

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A method of treating a disorder in which increased cell division occurs in a human or animal comprising administering to said human or animal a therapeutically effective amount of a peptide comprising the amino acid sequence:



wherein:

X_1 is selected from W, T, PE, KQI, VV, PQT, H, RI and absent;

X_2 is Y;

X_3 is P;

X_4 is K or R;

X_5 is K, R or E;

X_6 is H, R, Q or K; and

X_7 is H, S, R or K

and wherein said disorder is a cancer.

2.-8. (Cancel)

9. (Previously presented) A method according to claim 1 wherein said peptide X_1 to X_7 has the amino acid sequence W Y P W M K K H H R. (SEQ ID NO: 7).

10. (Withdrawn) The method according to claim 1 wherein said peptide further comprises a cell penetration moiety.

11. (Withdrawn) The method according to claim 10 wherein said cell penetration moiety is linked directly to the carboxy- terminal of the peptide X_1 to X_7 .

12. (Withdrawn) The method according to claim 10 or 11 wherein said cell penetration moiety has the amino acid sequence:

X8 Q I K I W F Q N R R M K W K K

wherein X8 is R or Q.

13. (Withdrawn) The method according to claim 10 wherein said cell penetration moiety has the amino acid sequence

X8 Q X9 X10 X11 W F Q N X12 X13 M X14 W X15 X16

wherein

X8 is R or Q,

X9, X11 are each independently I or L, and

X10, X12, X13, X14, X15 and X16 are each independently K or R

14. (Withdrawn) A method according to claim 10 wherein said cell penetration moiety has the amino acid sequence:

QIRIWFQNRRMKWKK; (SEQ ID NO: 10)

QIKIWFQNKRMMKWKK; (SEQ ID NO: 11)

QIKIWFQNKKMKWKK; (SEQ ID NO: 12)

QIRIWFQNRKMKWKK; (SEQ ID NO: 13)

QIRIWFQNRRMRWKK; (SEQ ID NO: 14)

QIRIWFQNRRMKWRK; (SEQ ID NO: 15)

QIRIWFQNRRMKWKR; (SEQ ID NO: 16)

QIRIWFQNRRMKWRR; (SEQ ID NO: 17)

QIRIWFQNRRMKWKK; (SEQ ID NO: 18)

QIKIWFQNRRMKWRK; (SEQ ID NO: 19)

QIRIWFQNKRMMKWRR; (SEQ ID NO: 20)

QIKLWFQNRRMKWKK, (SEQ ID NO: 21)

QLKLWFQNRRMKWKK; (SEQ ID NO: 22) or

QLRIWFQNRRMKWKK. (SEQ ID NO: 23)

15. (Withdrawn) A method according to claim 10 wherein said peptide has the sequence:
W Y P W M K K H H R Q I K I W F Q N R R M K W K (SEQ ID NO: 26); or

W Y P W M K K H H R Q I K I W F Q N R R M K W K K. (SEQ ID NO: 24).

16. (Previously Presented) The method according to claim 1 wherein said peptide has the sequence

W Y P W M K K H H R (SEQ ID NO:7).

17. (Cancel)

18. (Currently Amended) The method according to claim 1 wherein the increased cell division occurs in cells in which ~~said cells in which increased cell division occurs~~ express one or more Hox genes.

19. (Currently Amended) The method according to claim 1 wherein the increased cell division occurs in cells in which pre-B-cell transformation related gene (PBX) ~~PBX~~ does not act as an oncogene ~~in said cells in which increased cell division occurs~~.

20.-25. (Cancel)

26. (Withdrawn) A method according to claim 1 wherein said human or animal is also administered a cytotoxic or chemotherapeutic agent.

27.-35. (Cancel)